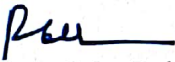# VIVEKANAND COLLEGE, KOLHAPUR

## (Empowered Autonomous)

## SEED MONEY SCHEME FOR RESEARCH

### Annual/Final Report of the work done on the Research Project

1) Project report No. $1^{st}$ /$2^{nd}$ (Final) - $1^{st}$

2) Reference No.    -    VCK/2022-23

3) Period of report : from -    01 /11/2022 to 31/10/2023

4) Title of research project – Flood Monitoring and Early Alerting system using Internet of Things (IoT)

5) a) Name of the Principal Investigator - Mr. Namdev Panduang Mote

   b) Dept. And College where work has progressed – Dept. of Electronics, Vivekanand College, Kolhapur (Empowered Autonomous)

6) Effective date of starting of the project - 01 /11/2022

7) Grant approved and expenditure incurred during the period of the report:

   a. Total amount approved Rs. – 1,32,000 /-

   b. Total expenditure Rs. - 10,000

   c. Report of the work done: Attached separate sheet

| 1. | Brief Objective of the Project | Annexure - A |
|---|---|---|
| 2. | Work done so far and results achieved and publications, if any, resulting from the work (Give details of the papers and names of the journals in which it has been published or accepted for publications) | Annexure - A |
| 3. | Has the progress been according to original plan of work and towards achieving the objective, if not state reasons. | Yes |
| 4. | Please indicate the difficulties, if any, experienced in implementing the project. | --------- |
| 5. | If project has not been completed, please indicate the approximate time by which it is likely to be completed. A summary of the work done for the period (Annual basis) may please be sent to the university on a separate sheet. | ongoing |

| | | |
|---|---|---|
| 6. | If the project has been completed, please enclose a summary of the findings of the study. Two bound copies of the final report of work done may also be sent to the University | --------- |
| 7. | Any other information which would help in evaluation of work done on the project. At the completion of the project, the first report should indicate the output, such as a) Manpower trained b) Ph. D awarded c) Publication of results d) other impact, if any. | ---------- |

Signature of the Principal Investigator:

Signature of the Principal

PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

# Report of the work done:

> **Title of research project:**
> *"Flood Monitoring and Early Alerting system using Internet of Things (IoT)"*

> **Objectives:**
> 1. Design a flood monitor and alert system on Raspberry Pi platform.
>     i) Emergency alert to local authorities through SMS.
>     ii) Alert via IoT that will provide current situation of water level in the river.

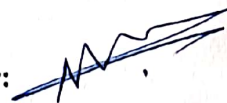> **Work and targets to achieve in this year:**
>
> During the research related to our project we review some Literature by referring various research papers related with this work. Next stage of our project is designing a block diagram of our project. Now we are working on the implementation of hardware of our project which consists of raspberry pi which is main part of our project and sensor. Also we are designing the power supply section using solar panel, charge controller and batteries. Along with this we have completed writing of research paper related with our project and we are searching for UGC care listed journal for publication.
>
> In next proposed year, we will implement and complete our project. Along with this we will publish two papers related with research work.

> **Output of Project:**
> Presented paper on this project in 2$^{nd}$ international conference on "Emerging Trends and Challenges in Electronics and Computing for Sustainable Development (ETCESD-2024) at YCIS Satara.

Signature of the Principal Investigator:

( Mote N. P.)